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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,625	11/21/2003	Kei Matsuoka	245719US2RD	8609
	7590 04/26/200	EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			RHEE, JANE J	
			ART UNIT	PAPER NUMBER
		•	1745	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MOI	NTHS	04/26/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/26/2007.

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			1/			
		Application No.	Applicant(s)			
-		10/717,625	MATSUOKA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Jane Rhee	1745			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	orrespondence address			
WHIC - Exte after - If NC - Failt Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 30 M	arch 2007.				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims		·			
4)⊠	Claim(s) <u>1,5,7-13,15-21 and 23</u> is/are pending	in the application.				
,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1,5,7-13,15-21,23</u> is/are rejected.	•				
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)□	The specification is objected to by the Examine	r.				
	The drawing(s) filed on is/are: a) acce		Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority (under 35 U.S.C. § 119		·			
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
	application from the International Bureau	` ' ' '				
* (See the attached detailed Office action for a list	of the certified copies not receive	∌d.			
Attachmen	• •		(DTO 440)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F				
Pape	er No(s)/Mail Date	6)				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/30/2007 has been entered.

Rejection Repeated

- 2. The 35 U.S.C. 102(b) rejection of claims 1,5,7-9,15-17,23 anticipated by Surampudia et al. has repeated for the reasons previously made in office action 10/30/2006.
- 3. The 35 U.S.C. 103(a) rejection of claims 11-13,19-21 over Surampudi et al. in view of Von Andrian has repeated for the reasons previously made in office action 10/30/2006.
- 4. The 35 U.S.C. 103(a) rejection of claims 10 and 18 over Surampudi et al. in view of Tsuki et al. has repeated for the reasons previously made in office action 10/30/2006.

Response to Arguments

5. Applicant's arguments filed 3/30/2007 have been fully considered but they are not persuasive.

In response to applicant's argument that Surampudi does not disclose or suggest wherein the heat exchanger exchanging heat between the liquid fuel supplied by the

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fuel supply unit to the anode and an exhaust exhausted from the liquid fuel cell wherein the exhaust is exhausted from the anode, Surampudi discloses that the carbon dioxide produced by the electrochemical reaction when the water and fuel mixture circulates past the anode is withdrawn along with the fuel and water solution through the outlet 23 (col. 5 line 6-7) and that the heat exchanger receives the output from the anode outlet (col. 3 line 44).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Jane Rhee April 18,2007